



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20050036

Agency Interest No. 1136

Mr. G. N. Bucholtz  
General Manager  
PO Box 500  
Geismar, LA 70734-0500

RE: Part 70 Operating Permit Renewal / Modification, Shell Chemical Company - Geismar Plant,  
Utilities Unit, Shell Chemical LP, Geismar, Ascension Parish, Louisiana

Dear Mr. Bucholtz:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

Permit No.: 2136-V3

Sincerely,

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:sjt

c: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

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**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shell Chemical Company - Geismar Plant  
Agency Interest No.: 1136  
Shell Chemical LP  
Geismar, Ascension Parish, Louisiana**

**I. Background**

Shell Chemical LP, Shell Chemical Company - Geismar Plant, is an existing chemical manufacturing complex. The Shell Chemical Company - Geismar Plant has several title V permits for its units of operation. The utilities unit currently operates under Permit No. 2136-V2, issued June 26, 2001.

This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire for the utilities unit were submitted by Shell Chemical LP on December 21, 2005 requesting a Part 70 operating permit renewal and minor modification. Additional information dated February 9, 2007 and February 16, 2007 was also received.

**III. Description**

Shell Chemical LP -- Geismar Plant operates the Utilities Unit which provides air, water, and steam to the many process units within the Geismar plant. The Utilities unit also operates the wastewater treatment process (biotreater) prior to discharge into the Mississippi River.

Shell Chemical proposes the following updates and reconciliations to the Utilities Unit Title V Renewal permit.

- Incorporate minor permitting activities:
  - Authorization to Construct issued on August 23, 2004 for Boilers F-U201 and F-U202 (EPN: 01A-71 and 01B-71)
  - Notification of Case-by-Case Insignificant Activity submitted on November 5, 2003 for use of a diesel-fired utility air compressor during scheduled maintenance activities
  - Letter of No Objection approved on November 4, 2005 which allows the use of ethane as a supplement to or in lieu of natural gas
- Update regulatory applicability
- Update combustion source emissions
- Update fugitive component emissions
- Update the presentation of speciated emissions
- Update Geismar Biotreater (GBT) emissions
- Update tank emissions
  - Add a Natural Gas Distillate Tank T-U803 (EPN 32-88), which was previously

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permitted as an insignificant activity, as an emission source

- Addition of Distillate Loading/Unloading Source
- Update General Condition XVII list
  - Incorporating a general use diesel-fired utility air compressor
- Update Insignificant Activity Source list
  - Updated emissions from insignificant diesel storage tanks to reflect LTAP speciation
- Proposed a wording change in a State Specific Condition No. 2
- Delete emission sources
  - Remove Boilers F-U203 and F-U204 (EPN 11B-73 and 01B-77)
  - Remove Natural Gas Fired Engine (EPN 13C-71) – converted to electric engine

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	57.06	39.38	-17.68
SO <sub>2</sub>	6.64	7.72	+1.08
NO <sub>X</sub>	1044.58	517.58	-527.00
CO	618.36	446.80	-171.56
VOC *	200.85	168.64	-32.21

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,1,1-Trichloroethane	-	0.01	+0.01
1,4-Dioxane	-	0.01	+0.01
2,2,4-Trimethylpentane	-	0.01	+0.01
Acetaldehyde	18.86	6.53	-12.33
Acrolein	0.35	0.02	-0.33
Benzene	-	0.07	+0.07
Chlorobenzene	-	0.01	+0.01
Chloroform	-	0.01	+0.01
Cumene	-	0.01	+0.01
Ethylbenzene	-	0.02	+0.02

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**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Ethylene glycol	0.02	0.01	-0.01
Ethylene oxide	1.54	2.23	+0.69
Formaldehyde	0.01	0.02	+0.01
Methanol	0.09	0.01	-0.08
Methyl tertiary butyl ether	1.42	0.20	-1.22
Methyl ethyl ketone	-	0.01	+0.01
Naphthalene	-	0.01	+0.01
Toluene	-	0.04	+0.04
Trichloroethylene	-	0.01	+0.01
Xylene	-	0.05	+0.05
n-Hexane	-	0.38	+0.38
n-butyl alcohol	12.23	0.01	-12.22
Total	34.52	9.68	-24.84

**Other VOC (TPY):** 158.97

Aldehydes	0.16
1,3-Propanediol	0.01

**NON - VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Ammonia	4.00	4.00	-
Chlorine	3.65	3.65	-
Propionaldehyde	-	0.16	+0.16

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, National Emission Standards for Hazardous Air Pollutants (NESHAP) and New Source Performance Standards (NSPS). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

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**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

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**VIII. General Condition XVII Activities**

Work Activity	Limitation	Emission Rates - tons				
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
Maintenance Activities		-	-	-	-	0.50
Temporary Large Fuel Fired Equipment*	≤500 HP; 600 hrs/yr	0.33	0.31	4.65	1.00	0.38
Temporary Small Fuel Fired Equipment*	≤50 HP; 6000 hrs/yr	0.33	0.31	4.65	1.00	0.38

\* Utilized for various maintenance activities which include but are not limited to: tank cleanings, transformer maintenance, electrical tie-ins, etc.

**IX. Insignificant Activities**

ID No.:	Description	Capacity	Citation
	Fuel Oil Storage (T-U502)	430 gallons	LAC 33:III.501.B.5.A.3
	Fuel (for DB-T303 Vessel) T-VT300	465 gallons	LAC 33:III.501.B.5.A.3
	Fuel (for DB-T307 Vessel) T-VT302	465 gallons	LAC 33:III.501.B.5.A.3
	Fuel (for DB-T202 Vessel) T-VT200	185 gallons	LAC 33:III.501.B.5.A.2
	Fuel Storage Tank T-T200	7000 gallons	LAC 33:III.501.B.5.A.3
	Fuel Oil Storage Tank T-U501A	430 gallons	LAC 33:III.501.B.5.A.3
	Storage Tank T-U133	2600 gallons	LAC 33:III.501.B.5.A.3
	Storage Tank T-U134	1760 gallons	LAC 33:III.501.B.5.A.3
	Storage Tank T-U205B	1760 gallons	LAC 33:III.501.B.5.A.3
	Emergency Generator Fuel Storage T-U504	430 gallons	LAC 33:III.501.B.5.A.3
	Storage Tank T-U210	1760 gallons	LAC 33:III.501.B.5.A.3
	Storage Tank T-U211	1760 gallons	LAC 33:III.501.B.5.A.3
	Storage Tank T-U212	1760 gallons	LAC 33:III.501.B.5.A.3
	Used Oil Storage Tank T-T201	7000 gallons	LAC 33:III.501.B.5.A.3
	Fuel (for DP-T102) Tank T-T100	265 gallons	LAC 33:III.501.B.5.A.2
	Steam System Treatment Storage T-U205	1760 gallons	LAC 33:III.501.B.5.A.3
	Steam System Treatment Storage T-U206	1760 gallons	LAC 33:III.501.B.5.A.3
	Steam System Treatment Storage T-U207	1760 gallons	LAC 33:III.501.B.5.A.3
	Steam System Treatment Storage T-U208	880 gallons	LAC 33:III.501.B.5.A.3
	Neat Polymer Storage Tank T-T401	1270 gallons	LAC 33:III.501.B.5.A.3
	Neat Anionic Polymer Storage T-T505	2900 gallons	LAC 33:III.501.B.5.A.3
	Diesel Storage Tank T-H4	1760 gallons	LAC 33:III.501.B.5.A.3
	Caustic Mixing Tank T-U201	650 gallons	LAC 33:III.501.B.5.B.40
	Caustic Additive Tank T-U213	530 gallons	LAC 33:III.501.B.5.B.40

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III Chapter																					
		5▲	9	11	13	15	2103	2107	2109	2111	2113	2115	2121	2122	2131	2147	2153	22	29*	51*	53*	56	59*
	Facility Wide - Utilities	1	1	1	1													3	1	1	1	1	1
EQT 555	01A-71 Boiler (Gas Firing) F-U201					1	1	2										1	1	1	1	1	1
EQT 556	01B-71 Boiler (Gas Firing) F-U202					1	1	2										1	1	1	1	1	1
EQT 557	10-87 Standby Blower Diesel Driver DB-T307					1	3	2										2	2	2	2	2	2
EQT 558	11-87 Lift Station Pump Diesel Driver DP-T102					1	3	2										2	2	2	2	2	2
EQT 559	12-87 Effluent Pump Diesel Driver DP-T202					1	3	2										2	2	2	2	2	2
EQT 560	13-87 Standby Blower Diesel Driver DB-T303					1	3	2										2	2	2	2	2	2
EQT 561	13A-71 Gas Engine DP-U101					1	3	2										1	1	1	1	1	1
EQT 562	13B-71 Gas Engine DP-U107					1	3	2										2	2	2	2	2	2
EQT 563	25-87 Fire Water Pump DP-U502					1	3	2										1	1	1	1	1	1
EQT 564	26-87 Fire Water Pump DP-U503					1	3	2										2	2	2	2	2	2
EQT 565	27-83 SBF Oil/Water Separator A-T518																	2	2	2	2	2	2
EQT 566	28A-83 Used Oil Storage Tank T-T204 Vertical Fix																						
EQT 567	28B-83 Used Oil Decant Tank T-T205 Vertical Fix																						
EQT 568	28C-83 Used Oil Decant Tank T-T206 Vertical Fix																						
EQT 569	28D-83 Used Oil Storage Tank T-T207 Vertical Fix																						
EQT 570	28E-83 Used Oil Decant Tank T-T208 Vertical Fix																						
EQT 571	28F-83 Used Oil Decant Tank T-T209 Vertical Fix																						
EQT 572	32-88 Natural Gas Distillate T-U803 vertical fix																						1

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	5▲	9	11	13	15	2103	2107	2109	2111	2113	2115	2121	2122	2131	2147	2153	22	29*	51*	53*	56	59*
EQT 573 33-88 Skimmed Oil Receiver Sump A-T206									3													
EQT 574 33-92 Boiler (Gas Firing) F-U205					1	1	2														2	1
EQT 575 34-88 Primary Sludge Receiver Sump A-T207																						
EQT 576 35-88 Recovered Oil Sump A-T519																						
EQT 577 36-88 Unloading Area Chem. Sewer Sump A-T600																						
EQT 578 37-88 Primary Treater Area Drips Sump A-T601																						
EQT 579 38-88 Primary Clarifier Area Drips Sump A-T602																						
EQT 580 39-88 Chemical Sewer Sump A-T605																						
EQT 581 40-97 Boiler (Natural Gas Fired) F-U206					1	1	2														2	
EQT 582 41-88 Pump Pit Sump (P-T603)(604) T-T400																		3				
EQT 583 42-91 Emergency Generator DY-U501A					1	3	2														2	
EQT 584 43-91 Sludge Cleanout Sump A-T520																	3					
EQT 585 44-88 Ferralyte Feed Tank T-T415 Vertical Fix																	3					
EQT 586 45-88 Aqueous Drips Surge Tank T-U630 Vertical Fix																						
EQT 587 51-88 API Sludge Decant Tank T-T509																		3				
EQT 588 52-88 API Sludge Decant Tank T-T510																		3				
EQT 589 Horizontal T																						
RLP 042 100-98 GBT Sludge Dryer Vent																		2				
FUG 016 701-00 Fugitive Emissions, Utilities																	1		3	3	1	
GRP 057 730-05 GBT System																	2				1	

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ID No.: Description		LAC 33:III Chapter																							
		5▲	9	11	13	15	2103	2107	2109	2111	2113	2115	2121	2122	2131	2147	2153	22	29*	51*	53*	56	59*		
EQT 590	731-05 Natural Gas Distillate Loading/Unloading									3											1				

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

### KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	Ka	Kb	D	Db	GG	NNN	RRR	A	FF	M	A	G	H	VV	ZZZZ	DDDDD	64	68	82	1	3	1	2	1	1
	Facility Wide - Utilities	1								1	2	1	1														
EQT 555	01A-71 Boiler (Gas Firing) F-U201																										
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EQT 573	33-88 Skimmed Oil Receiver Sump A-T206																						
EQT 574	33-92 Boiler (Gas Firing) F-U205									1	1	1										1	
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EQT 577	36-88 Unloading Area Chem. Sewer Sump A-T600																						
EQT 578	37-88 Primary Treater Area Drips Sump A-T601																						
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EQT 581	40-97 Boiler (Natural Gas Fired) F-U206									1													3
EQT 582	41-88 Pump Pit Sump (P-T603/604) T-T400																						
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EQT 588	52-88 API Sludge Decant Tank T-T510																						
EQT 589	61-87 Gasoline (Super Unleaded) Storage T-H3 Horizontal T									3													
RLP 042	100-98 GBT Sludge Dryer Vent																				3	3	
FUG 016	701-00 Fugitive Emissions, Utilities																						

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EQT 590	731-05 Natural Gas Distillate Loading/Unloading																								

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Blank ~ The regulations clearly do not apply to this type of emission source.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
Facility Wide - Utilities	NESHAP Subpart FF, Benzene Waste Operations 40 CFR 61.340	EXEMPT. The Utilities Unit does not generate benzene waste. An initial report per 40 CFR 61.357(a) was submitted. No additional requirements unless there is a process change which would generate benzene waste.
EQT 555 Boiler F-U201 (01A-71)	Limiting VOC Emissions from Industrial Wastewater LAC 33:III.2153 – STATE ONLY  NSPS Subpart D, Steam Generators 40 CFR 60.40  NSPS Subpart Db, Steam Generations Units 40 CFR 60.40b  40 CFR 64, Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. Receives no affected VOC wastewater.  DOES NOT APPLY. Not constructed, modified or reconstructed after August 17, 1971.  DOES NOT APPLY. Not constructed, modified, or reconstructed after June 19, 1984.  DOES NOT APPLY. This source is a control device but it is not used as a control device for any sources subject to CAM.  EXEMPT. Unit emits < 250 tpy SO <sub>2</sub>
EQT 556 Boiler F-U202 (01B-71)	Emission Standards for Sulfur Dioxide LAC 33:III.1503.C and 1513  Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513  NSPS Subpart D, Steam Generators 40 CFR 60.40	EXEMPT. CEMS not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>  DOES NOT APPLY. Not constructed, modified or reconstructed after August 17, 1971

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 556 Boiler F-U202 (01B-71)	NSPS Subpart Db, Steam Generations Units 40 CFR 60.40b	DOES NOT APPLY. Not constructed, modified, or reconstructed after June 19, 1984.
	Emission Standards for Sulfur Dioxide LAC 33.III.1503.C and 1513	EXEMPT. Unit emits < 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33.III.1511 and 1513	EXEMPT. CEMS not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
RLP 042 GBT Sludge Dryer Vent (100-98)	NSPS Subpart NNN, SOCMI Distillation Operations 40 CFR 60.660	DOES NOT APPLY. The vent does not originate from a distillation operation.
	NSPS Subpart RRR, SOCMI Reactor Processes 40 CFR 60.700	DOES NOT APPLY. The vent does not originate from a reactor process.
	Organic Compounds – Waste Gas Disposal LAC 33.III.2115.H.1.d	EXEMPT. Partial pressure of VOCs in waste gas stream is < 0.044 psia.
	VOC from SOCMI Reactors & Distillation LAC 33.III.2147 – STATE ONLY	DOES NOT APPLY. This source does not originate from a distillation or a reactor process.

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**Agency Interest No.: 1136**  
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**Geismar, Ascension Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 557 Standby Blower Diesel Driver DB- T307 (10-87)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE)  40 CFR 63	EXEMPT. Regulation applies to Major Source of HAP's but this specific stationary RICE unit is an existing emergency stationary RICE, an existing compression ignition stationary RICE, or existing limited use stationary RICE; per 40 CFR 63.6590(b)(3) unit does not have to meet the requirements of this regulation or 40 CFR 63 Subpart A.
	Emission Standards for PM  LAC 33:III.1313	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
	Emission Standards for Sulfur Dioxide  LAC 33:III.1503.C and 1513	EXEMPT. Unit emits < 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring  LAC 33:III.1511 and 1513	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
	Control of Emissions of Nitrogen Oxides  LAC 33:III.Chapter 22	EXEMPT. Diesel-fired stationary internal combustion engines are exempt from this regulation per LAC 33:III.2201.C.14.
EQT 558 Lift Station Pump Diesel Driver DP- T102 (11-87)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE)  40 CFR 63.6590(a)	DOES NOT APPLY. Regulation applies to Major Source of HAPs but this specific stationary RICE unit has a rating less than or equal to 500 BHP (BHP = 270); per 40 CFR 63.6590(a) unit is not an affected source under the rule.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 558 Lift Station Pump Diesel Driver DP- T102 (11-87)	Emission Standards for PM LAC 33:III.1313.	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
	Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22	EXEMPT. Diesel-fired stationary internal combustion engines are exempt from this regulation per LAC 33:III.2201.C.14.
EQT 559 Effluent Pump Diesel Driver DP- T202 (12-87)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE) 40 CFR 63.6590(a)	DOES NOT APPLY. Regulation applies to Major Source of HAPs but this specific stationary RICE unit has a rating less than or equal to 500 BHP (BHP = 270); per 40 CFR 63.6590(a) unit is not an affected source under the rule.
	Emission Standards for PM LAC 33:III.1313.	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub>

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 559 Effluent Pump Diesel Driver DP- T202 (12-87)	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
	Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22	EXEMPT. Diesel-fired stationary internal combustion engines are exempt from this regulation per LAC 33:III.2201.C.14.
EQT 560 Standby Blower Diesel Driver DB- T303 (13-87)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE) 40 CFR 63	EXEMPT. Regulation applies to Major Source of HAP's but this specific stationary RICE unit is an existing emergency stationary RICE, an existing compression ignition stationary RICE, or existing limited use stationary RICE; per 40 CFR 63.6590(b)(3) unit does not have to meet the requirements of this regulation or 40 CFR 63 Subpart A.
	Emission Standards for PM LAC 33:III.1313	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 560 Standby Blower Diesel Driver DB- T303 (13-87)	Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22	EXEMPT. Diesel-fired stationary internal combustion engines are exempt from this regulation per LAC 33:III.2201.C.14.
EQT 561 Gas Engine DP-U101 (13A-71)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE) 40 CFR 63.6590(a)	DOES NOT APPLY. Regulation applies to Major Source of HAPs but this specific stationary RICE unit has a rating less than or equal to 500 BHP (BHP = 495 max); per 40 CFR 63.6590(a) unit is not an affected source under the rule.
EQT 562 Gas Engine DP-U107 (13B-71)	Emission Standards for PM LAC 33:III.1313.	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
EQT 563 Fire Water Pump DP-U502 (25-87)	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513 Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub> EXEMPT. CEMS not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE) 40 CFR 63.6590(a)	DOES NOT APPLY. Regulation applies to Major Source of HAPs but this specific stationary RICE unit has a rating less than or equal to 500 BHP (BHP = 300); per 40 CFR 63.6590(a) unit is not an affected source under the rule.
	Emission Standards for PM LAC 33:III.1313.	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 563 Fire Water Pump DP-U502 (25-87)	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
	Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22	EXEMPT. Stationary gas turbines and stationary internal combustion engines that are operated exclusively for fire fighting or training and/or flood control are exempt from this regulation per LAC 33:III.2201.C.5.d.
EQT 564 Fire Water Pump DP-U503 (26-87)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE) 40 CFR 63.6590(a)	DOES NOT APPLY. Regulation applies to Major Source of HAPs but this specific stationary RICE unit has a rating less than or equal to 500 BHP (BHP = 370); per 40 CFR 63.6590(a) unit is not an affected source under the rule.
	Emission Standards for PM LAC 33:III.1313.	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 564 Fire Water Pump DP-U503 (26-87)	Control of Emissions of Nitrogen Oxides LAC 33:II.Chapter 22	EXEMPT. Stationary gas turbines and stationary internal combustion engines that are operated exclusively for fire fighting or training and/or flood control are exempt from this regulation per LAC 33:III.2201.C.5.d.
EQT 565 SBF Oil/Water Separator A-T518 (27-83)	Oil/Water Separation LAC 33:III.2109.B.3	EXEMPT. Separated VOC materials have a TVP < 0.5 psia.
EQT 566 - 571 Used Oil Storage Tanks (28A-83 to 28F-83)	NSPS Subpart Kb, VOL Storage Vessels 40 CFR 60.110b	DOES NOT APPLY. Tank was constructed prior to 7/23/84 (constructed in 1978). Vapor pressure < 0.5 psia.
	Storage of VOCs LAC 33:III.2103	DOES NOT APPLY. The TVP of the stored liquid is less than regulated level. TVP for VOC < 1.5 psia.
EQT 572 Natural Gas Distillate T-U803 (32-88)	NSPS Subpart Kb, VOL Storage Vessels 40 CFR 60.110b	DOES NOT APPLY. Tank was constructed prior to 7/23/84 (constructed in 1982). Vapor pressure < 0.5 psia.
EQT 573 Skinned Oil Receiver Sump A- T206 (33-88)	Oil Water – Separation LAC 33:III.2109	DOES NOT APPLY. This source does not meet the definition of oil/water separator.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 574 Boiler F-U205 (33-92)	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits < 250 tpy SO <sub>2</sub>
	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513	EXEMPT. CEMS not required for flares and sources emitting < 100 tpy of SO <sub>2</sub>
	Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22	EXEMPT. This source is required to meet a more stringent state or federal NOx emission limitation and is exempt from this regulation per LAC 33:III.2201.C.15
EQT 575 - 580 Primary Sludge Receiver Sump (34-88); Recovered Oil Sump (35-88); Unloading Area Chem. Sewer Sump (36-88); Primary Treater Area Drips Sump (37-88); Primary Clarifier Area Drips Sump (38-88); & Chemical Sewer Sump (39-88)	Oil/Water Separation LAC 33:III.2109	DOES NOT APPLY. This source does not meet the definition of oil/water separator.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 581 Boiler F-U206 (40-97)	40 CFR 64, Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. This source is a control device but it is not used as a control device for any sources subject to CAM.
Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513		EXEMPT. Unit emits < 250 tpy SO <sub>2</sub>
Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22		EXEMPT. This source is required to meet a more stringent state or federal NOx emission limitation and is exempt from this regulation per LAC 33:III.2201.C.15.
EQT 582 Pump Pit Sump (P-T603(604) T-1400 (41-88))	Oil/Water Separation LAC 33:III.2109	DOES NOT APPLY. This source does not meet the definition of oil/water separator.
EQT 583 Emergency Generator DY-U501A (42-91)	NESHAP Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE) 40 CFR 63.6590(a)	DOES NOT APPLY. Regulation applies to Major Source of HAPS but this specific stationary RICE unit has a rating less than or equal to 500 BHP (BHP = 415); per 40 CFR 63.6590(a) unit is not an affected source under the rule.
	Emission Standards for PM LAC 33:III.1313.	DOES NOT APPLY. The primary purpose of this source does not match any of those listed in LAC 33:III.1313.B.
	Emission Standard for Sulfur Dioxide LAC 33:III.1503.C and 1513	EXEMPT. Unit emits > 250 tpy SO <sub>2</sub>

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 583 Emergency Generator DY-U501A (42-91)	Sulfur Dioxide: Continuous Emissions Monitoring LAC 33:III.1511 and 1513  Control of Emissions of Nitrogen Oxides LAC 33:III.Chapter 22	EXEMPT. CEMs not required for flares and sources emitting < 100 tpy or SO <sub>2</sub>
EQT 584 Sludge Cleanout Sump A-T520 (43-91)	Oil/Water Separation LAC 33:III.2109	EXEMPT. Diesel-fired stationary internal combustion engines are exempt from this regulation per LAC 33:III.2201.C.14.  DOES NOT APPLY. This source does not meet the definition of oil/water separator.
EQT 585 Ferralyte Feed Tank T-T415 (44-88)	NSPS Subpart Kb, VOL Storage Vessels 40 CFR 60.110b	DOES NOT APPLY. Tank capacity less than regulated level (19, 813 gallons). Constructed in 1985.
EQT 587 & 588 API Sludge Decant Tanks (51-88 & 52-88)	Storage of VOCs LAC 33:III.2103	DOES NOT APPLY. The TVP of the stored liquid is less than regulated level. TVP for VOC < 1.5 psia.
EQT 589 Gasoline Storage (61-87)	Oil/Water Separation LAC 33:III.2109  NSPS Subpart Kb, VOL Storage Vessels 40 CFR 60.110b	DOES NOT APPLY. This source does not meet the definition of oil/water separator.  DOES NOT APPLY. Tank capacity less than regulated level (19, 813 gallons). Constructed in 1985.

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 589 Gasoline Storage (61-87)	Filling of Gasoline Storage Vessels LAC 33:III.2131.D.3	EXEMPT. This facility is in an ozone nonattainment area (Ascension Parish) and has throughput < 120 M gal/yr.
FUG 016 Fugitive Emissions, Utilities (701-00)	NSPS Subpart VV, VOC Equipment Leaks 40 CFR 60.480	DOES NOT APPLY. This source is not part of a process unit as intended by this rule [40 CFR 60.481] & [FR Vol. 46, No. 2, 1136-1164].
HON Subpart H, Equipment Leaks 40 CFR 63.160		DOES NOT APPLY. This source is not part of a group of equipment that uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in Table 2 of 40 CFR 63, Subpart F [40 CFR 63.100(b)(2)].
Fugitive Emission Control LAC 33:III.2121		DOES NOT APPLY. Facility is not a listed applicable facility.
Fugitive Control / Ozone Nonattainment LAC 33:III.2122		DOES NOT APPLY. This unit is not a SOCMII facility; it does not produce, as intermediates or as final products, one or more of the chemicals listed in LAC 33:III Chapter 21 Table 8.
GRP 057 GBT System (730-05)	Oil/Water Separation LAC 33:III.2109.B.3	EXEMPT. Separated VOC materials have a TVP < 0.5 psia. This reg applies to: A-T200, A-T201, T-T202, T-T203, A-T400, and A-T401.
	Oil/Water Separation LAC 33:III.2109	DOES NOT APPLY. This source does not meet the definition of oil/water separator. This reg applies to: A-T101, A-T202, A-T203, T-T300, T-T301, T-T305, T-T400, T-T409, T-T410, T-T501, and T-T504

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 590 Natural Gas Distillate Loading/Unloading (731-05)	VOC Loading LAC 33:III.2107	DOES NOT APPLY. Loading facilities with a throughput less than 20,000 gallons per day are not subject to this regulation.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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### COMPLIANCE ASSURANCE MONITORING (CAM)

The pollutant-specific emission unit to which this CAM applies is the EO/EG-3 process unit at the Shell Chemical LP facility in Geismar, LA. VOC emissions from the EO/EG-3 unit are controlled using one of two boilers, with a backup flare. The process gases from the EO/EG-3 unit go first to Boiler F-U205 (EPN 33-92; TEMPO ID: EQT 574). If F-U205 is down, then the gases are then directed to Boiler F-U202 (EPN 01B-07; TEMPO ID: EQT 556). If both boilers are down, the gases would go to the Plant Flare System (EPN 03-73) (not in this permit).

The monitoring approach for the boilers as control devices is to maintain records that demonstrate that the EO/EG-3 process gases are introduced into the primary flame zone.

### MONITORING REQUIREMENTS

#### EPN 33-92

- LAC 33:III.2115 – Monitor for % oxygen in stack gas and record the results.
- NSPS Subpart NNN (40 CFR 60.662(a)) – Only those recordkeeping requirements for a boiler used as a control device apply. Record location at which the vent stream is introduced into the combustion device [40 CFR 60.665(b)(2)(i)].
- NSPS Subpart RRR (40 CFR 60.703 & 705) – Shall comply with the applicable requirements as stated in EPA approval letter dated April 6, 1995. (This letter allows for alternate MRR under Subpart RRR for vents subject to NNN.)

#### EPN 01B-71

- LAC 33:III.2115 – Monitor for % oxygen in stack gas and record the results.
- NSPS Subpart NNN (40 CFR 60.662(a)) – Only those recordkeeping requirements for a boiler used as a control device apply. Record location at which the vent stream is introduced into the combustion device [40 CFR 60.665(b)(2)(i)].
- NSPS Subpart RRR (40 CFR 60.703 & 705) – Shall comply with the applicable requirements as stated in EPA approval letter dated April 6, 1995. (This letter allows for alternate MRR under Subpart RRR for vents subject to NNN.)

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

## 40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
  1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.  
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

## 40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  - 5. changes in emissions would not qualify as a significant modification; and
  - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
  - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

## 40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

## **40 CFR PART 70 GENERAL CONDITIONS**

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated December 21, 2005, along with supplemental information dated February 9, 2007 and February 16, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

**AI ID:** 1136 Shell Chemical Co - Geismar Plant  
**Activity Number:** PER20050036  
**Permit Number:** 2136-V3  
**Air - Title V Regular Permit Renewal**

Also Known As:	ID	Name	User Group	Start Date
	LA05258	ADV#	Asbestos	04-14-2003
0180-00010		Shell Chemical Co - Geismar Plant	CDS Number	08-22-2002
0180-0010		Shell Chemical Co - Geismar Plant	Emission Inventory	02-25-2004
13-1299890		Federal Tax ID	Federal Tax ID	11-21-1999
LAD003913183		Shell Chemical Co - Geismar Plant	Hazardous Waste Notification	09-02-1983
LAD0003913183		Shell Chemical Co - Geismar Plant	Inactive & Abandoned Sites	06-09-1981
LA0005754		LPDES #	LPDES Permit #	06-25-2003
WP1347		LWDPS #	LWDPS Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
		Radioactive Material License	Radiation License Number	05-26-1987
	LA-2132-L01	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
	2132	Site ID #	Solid Waste Facility No.	11-21-1999
G-005-1740		Shell Chemical Co - Geismar Works	TEMPO Merge	01-19-2001
17631		Shell Chemical LP - Geismar	TEMPO Merge	08-05-2001
34601		Shell Chemical Co	TEMPO Merge	08-05-2001
38774		Shell Chemical Co	TEMPO Merge	03-08-2001
47981		Shell Chemical Co	TEMPO Merge	08-05-2001
67594		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
0180-0010		TRI #	Toxic Release Inventory	07-19-2004
70737SHLLCRIVER		UST Facility ID #	Underground Storage Tanks	10-11-2002
03-008346				
			<b>Main Phone:</b>	2253016222
		Physical Location:		
		7594 Hwy 75 Geismar, LA 70734		
		<b>Mailing Address:</b>		
		PO Box 500 Geismar, LA 707340500		
		<b>Location of Front Gate:</b>		
		30° 11' 6" 5 hundredths latitude, 90° 59' 15" 40 hundredths longitude, Coordinate Method: GPS Code (Psuedo Range) Differential, Coordinate Datum: NAD83		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Water Permit Contact For
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Asbestos Contact for
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Water Billing Party for
Lorraine Anderson	PO Box 500 Geismar, LA 707340500	LORRAINE ANDERSON	2252016586 (WP)	Emission Inventory Contact for
Lorraine Anderson	PO Box 500 Geismar, LA 707340500	2252016207 (WP)	Emission Inventory Contact for	
Gerald G. Brouillette	PO Box 500 Geismar, LA 707340500			Accident Prevention Billing Party for

**General Information**

AI ID: 1136 Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Gerald G. Brouillette	PO Box 500 Geismar, LA 707340500	2252016030 (WF)	Accident Prevention Billing Party for
	Robert E. Evans	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Radiation Safety Officer for
	Robert E. Evans	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Radiation Contact For
	Kathleen M. Garey	PO Box 500 Geismar, LA 707340500	2252016782 (WP)	Accident Prevention Contact for
	Kathleen M. Garey	PO Box 500 Geismar, LA 707340500	2252016482 (WF)	Accident Prevention Contact for
	Greg Karmia	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Permit Contact For
	Keith S. Miller	PO Box 500 Geismar, LA 707340500	2252106247 (WP)	Hazardous Waste Permit Contact For
	Keith S. Miller	PO Box 500 Geismar, LA 707340500	2252016030 (WF)	Hazardous Waste Permit Contact For
	S. A. Rathweg	PO Box 500 Geismar, LA 707340500		Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	UST Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Owns
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Operates
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation Registration Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation License Billing Party for
SIC Codes:	2869, Industrial organic chemicals, nec			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to [Facupdate@la.gov](mailto:Facupdate@la.gov).

**INVENTORIES**

All ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT555	01A-71 Boiler (Gas Firing) F-U201	300 MM BTU/hr	290.6 MM BTU/hr	290.6 MM BTU/hr		8760 hr/yr (All Year)
EQT556	01B-71 Boiler (Gas Firing) F-U202	300 MM BTU/hr	290.6 MM BTU/hr	290.6 MM BTU/hr		8760 hr/yr (All Year)
EQT557	10-87 Standby Blower Diesel Driver DB-T307	640 brake hp				664 hr/yr (All Year)
EQT558	11-87 Lift Station Pump Diesel Driver DP-T102	270 brake hp				536 hr/yr (All Year)
EQT559	12-87 Effluent Pump Diesel Driver DP-T202	270 brake hp				536 hr/yr (All Year)
EQT560	13-87 Standby Blower Diesel Driver DB-T303	640 brake hp				864 hr/yr (All Year)
EQT561	13A-71 Gas Engine DP-U101	495 brake hp	414 brake hp	414 brake hp		8760 hr/yr (All Year)
EQT562	13B-71 Gas Engine DP-U107	495 brake hp	414 brake hp	414 brake hp		8760 hr/yr (All Year)
EQT563	25-87 Fire Water Pump DP-U502	300 brake hp				541 hr/yr (All Year)
EQT564	26-87 Fire Water Pump DP-U503	370 brake hp				541 hr/yr (All Year)
EQT565	27-83 SEF Oil/Water Separator A-T518		165000 gallons/yr	165000 gallons/yr		8760 hr/yr (All Year)
EQT566	28A-83 Used Oil Storage Tank T-T204 Vertical Fix		165000 gallons/yr	165000 gallons/yr		8760 hr/yr (All Year)
EQT567	28B-83 Used Oil Decant Tank T-T205 Vertical Fix		328000 gallons/yr	328000 gallons/yr		8760 hr/yr (All Year)
EQT568	28C-83 Used Oil Decant Tank T-T206 Vertical Fix		328000 gallons/yr	328000 gallons/yr		8760 hr/yr (All Year)
EQT569	28D-83 Used Oil Storage Tank T-T207 Vertical Fix		325000 gallons/yr	325000 gallons/yr		8760 hr/yr (All Year)
EQT570	28E-83 Used Oil Decant Tank T-T208 Vertical Fix		328000 gallons/yr	328000 gallons/yr		8760 hr/yr (All Year)
EQT571	28F-83 Used Oil Decant Tank T-T209 Vertical Fix		240000 gallons/yr	240000 gallons/yr		8760 hr/yr (All Year)
EQT572	32-88 Natural Gas Distillate T-U803 Vertical Fix					8760 hr/yr (All Year)
EQT573	33-88 Skimmed Oil Receiver Sump A-T206		300 MM BTU/hr	290.6 MM BTU/hr		8760 hr/yr (All Year)
EQT574	33-92 Boiler (Gas Firing) F-U205		290.6 MM BTU/hr	290.6 MM BTU/hr		8760 hr/yr (All Year)
EQT575	34-88 Primary Sludge Receiver Sump A-T207					8760 hr/yr (All Year)
EQT576	35-88 Recovered Oil Sump A-T519					8760 hr/yr (All Year)
EQT577	36-88 Unloading Area Chem. Sewer Sump A-T600		300 MM BTU/hr	285 MM BTU/hr		8760 hr/yr (All Year)
EQT578	37-88 Primary Treater Area Drips Sump A-T601					8760 hr/yr (All Year)
EQT579	38-88 Primary Clarifier Area Drips Sump A-T602					8760 hr/yr (All Year)
EQT580	39-88 Chemical Sewer Sump A-T605					8760 hr/yr (All Year)
EQT581	40-97 Boiler (Natural Gas Fired) F-U206					8760 hr/yr (All Year)
EQT582	41-88 Pump Pit Sump (P-T603/604) T-T400					125 hr/yr (All Year)
EQT583	42-91 Emergency Generator DY-U501A		415 brake hp			8760 hr/yr (All Year)
EQT584	43-91 Sludge Cleanout Sump A-T520					8760 hr/yr (All Year)
EQT585	44-88 Ferrelite Feed Tank T-T415 Vertical Fix					8760 hr/yr (All Year)
EQT586	45-88 Aqueous Drips Surge Tank T-J630 Vertical Fix					8760 hr/yr (All Year)
EQT587	51-88 API Sludge Decant Tank T-T509					8760 hr/yr (All Year)
EQT588	52-88 API Sludge Decant Tank T-T510					8760 hr/yr (All Year)
EQT589	61-87 Gasoline (Super Unleaded) Storage T-H3 Horizontal T					8760 hr/yr (All Year)
EQT590	73T-05 Natural Gas Distillate Loading/Unloading					8760 hr/yr (All Year)
EQT591	01-83 Chem Sewer Lift Sump A-T101					8760 hr/yr (All Year)

INVENTORIES

AI ID: 1136 - Shell Chemical Co . Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT592	02-83 Primary Separator Basin A-T201					8760 hr/yr (All Year)
EQT593	02-87 Aeration Basin T-T-300	3.36 million gallons				8760 hr/yr (All Year)
EQT594	03-83 Primary Separator Basin A-T202					8760 hr/yr (All Year)
EQT595	03-87 Aeration Basin T-T-301					8760 hr/yr (All Year)
EQT596	04-87 Aeration Basin T-T-304	3.36 million gallons				8760 hr/yr (All Year)
EQT597	05-87 Aeration Basin T-T-305	3.36 million gallons				8760 hr/yr (All Year)
EQT598	06-87 Primary Effluent Receiver Sump A-T203					8760 hr/yr (All Year)
EQT599	08-87 DAF Clarifier A-T400					8760 hr/yr (All Year)
EQT600	09-87 DAF Clarifier A-T401					8760 hr/yr (All Year)
EQT601	40-87 Neutralizing Basin A-T200					8760 hr/yr (All Year)
EQT602	40-88 Sludge Surge Tank T-T-400					8760 hr/yr (All Year)
EQT603	40-91 Thickened Sludge Surge Tank T-T-501					8760 hr/yr (All Year)
EQT604	42-87 Primary Sludge Surge Tank T-T-504					8760 hr/yr (All Year)
EQT605	47-88 Equalization/Surge Tank T-T202					8760 hr/yr (All Year)
EQT606	48-88 Surge/Spills Diversion Tank T-T203					8760 hr/yr (All Year)
EQT607	49-88 Flocculation Tank T-T409					8760 hr/yr (All Year)
EQT608	50-02 Aerator Surge Feed Tank T-T411					8760 hr/yr (All Year)
EQT609	50-88 Flocculation Tank T-T410					8760 hr/yr (All Year)
FUGD16	701-00 Fugitive Emissions, Utilities					8760 hr/yr (All Year)
RLP042	100-98 GBT Sludge Dryer Vent			5000 lb/hr		8760 hr/yr (All Year)

## Subject Item Groups:

ID	Description	Included Components (from Above)
GRP057	730-05 GBT System	EQT591 01-83 Chem Sewer Lift Sump A-T101
GRP057	730-05 GBT System	EQT592 02-83 Primary Separator Basin A-T201
GRP057	730-05 GBT System	EQT593 02-87 Aeration Basin T-T-300
GRP057	730-05 GBT System	EQT594 03-83 Primary Separator Basin A-T202
GRP057	730-05 GBT System	EQT595 03-87 Aeration Basin T-T-301
GRP057	730-05 GBT System	EQT596 04-87 Aeration Basin T-T-304
GRP057	730-05 GBT System	EQT597 05-87 Aeration Basin T-T-305
GRP057	730-05 GBT System	EQT598 06-87 Primary Effluent Receiver Sump A-T203
GRP057	730-05 GBT System	EQT599 08-87 DAF Clarifier A-T400
GRP057	730-05 GBT System	EQT600 09-87 DAF Clarifier A-T401
GRP057	730-05 GBT System	EQT601 40-87 Neutralizing Basin A-T200
GRP057	730-05 GBT System	EQT602 40-88 Sludge Surge Tank T-T-400
GRP057	730-05 GBT System	EQT603 40-91 Thickened Sludge Surge Tank T-T-501

**INVENTORIES**

All ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP057	730-05 GBT System	EQT604 42-87 Primary Sludge Surge Tank T-T504
GRP057	730-05 GBT System	EQT605 47-88 Equalization/Surge Tank T-T202
GRP057	730-05 GBT System	EQT606 48-88 Surge/Spills Diversion Tank T-T203
GRP057	730-05 GBT System	EQT607 49-88 Flocculation Tank T-T409
GRP057	730-05 GBT System	EQT608 50-02 Aerator Surge Feed Tank T-T411
GRP057	730-05 GBT System	EQT609 50-88 Flocculation Tank T-T410
GRP058	UTILITIES UNIT	EQT555 01A-71 Boiler (Gas Firing) F-U201
GRP058	UTILITIES UNIT	EQT556 01B-71 Boiler (Gas Firing) F-U202
GRP058	UTILITIES UNIT	EQT557 10-87 Standby Blower Diesel Driver DB-T307
GRP058	UTILITIES UNIT	EQT558 11-87 Lift Station Pump Diesel Driver DP-T102
GRP058	UTILITIES UNIT	EQT559 12-87 Effluent Pump Diesel Driver DP-T202
GRP058	UTILITIES UNIT	EQT560 13-B7 Standby Blower Diesel Driver DB-T303
GRP058	UTILITIES UNIT	EQT561 13A-71 Gas Engine DP-U101
GRP058	UTILITIES UNIT	EQT562 13B-71 Gas Engine DP-U107
GRP058	UTILITIES UNIT	EQT563 25-87 Fire Water Pump DP-U502
GRP058	UTILITIES UNIT	EQT564 26-87 Fire Water Pump DP-U503
GRP058	UTILITIES UNIT	EQT565 27-83 SBF Oil/Water Separator A-T518
GRP058	UTILITIES UNIT	EQT566 28A-83 Used Oil Storage Tank T-T204 Vertical Fix
GRP058	UTILITIES UNIT	EQT567 28B-83 Used Oil Decant Tank T-T205 Vertical Fix
GRP058	UTILITIES UNIT	EQT568 28C-83 Used Oil Decant Tank T-T206 Vertical Fix
GRP058	UTILITIES UNIT	EQT569 28D-83 Used Oil Storage Tank T-T207 Vertical Fix
GRP058	UTILITIES UNIT	EQT570 28E-83 Used Oil Decant Tank T-T208 Vertical Fix
GRP058	UTILITIES UNIT	EQT571 28F-83 Used Oil Decant Tank T-T209 Vertical Fix
GRP058	UTILITIES UNIT	EQT572 32-88 Natural Gas Distillate TU803 vertical Fix
GRP058	UTILITIES UNIT	EQT573 33-88 Skinned Oil Receiver Sump A-T206
GRP058	UTILITIES UNIT	EQT574 33-92 Boiler (Gas Firing) F-U205
GRP058	UTILITIES UNIT	EQT575 34-88 Primary Sludge Receiver Sump A-T207
GRP058	UTILITIES UNIT	EQT576 35-88 Recovered Oil Sump A-T519
GRP058	UTILITIES UNIT	EQT577 36-88 Unloading Area Chem. Sewer Sump A-T600
GRP058	UTILITIES UNIT	EQT578 37-88 Primary Treater Area Drips Sump A-T601
GRP058	UTILITIES UNIT	EQT579 38-88 Primary Clarifier Area Drips Sump A-T602
GRP058	UTILITIES UNIT	EQT580 39-88 Chemical Sewer Sump A-T605
GRP058	UTILITIES UNIT	EQT581 40-97 Boiler (Natural Gas Fired) F-U206
GRP058	UTILITIES UNIT	EQT582 41-88 Pump Pit Sump (P-T603/604) T-T400
GRP058	UTILITIES UNIT	EQT583 42-91 Emergency Generator DY-U501A
GRP058	UTILITIES UNIT	EQT584 43-91 Sludge Cleanout Sump A-T520
GRP058	UTILITIES UNIT	EQT585 44-88 Ferrayle Feed Tank T-T415 Vertical Fix

INVENTORIES

All ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

## Subject Item Groups:

ID	Description	Included Components (from Above)
GRP058 UTILITIES UNIT		EQT586 45-88 Aqueous Drifts Surge Tank T-U650 Vertical Fix
GRP058 UTILITIES UNIT		EQT587 51-88 API Sludge Decant Tank T-T509
GRP058 UTILITIES UNIT		EQT588 52-88 API Sludge Decant Tank T-T510
GRP058 UTILITIES UNIT		EQT589 61-87 Gasoline (Super Unleaded) Storage T-H3 Horizontal T
GRP058 UTILITIES UNIT		EQT590 731-05 Natural Gas Distillate Loading/Unloading
GRP058 UTILITIES UNIT		FUG16 701-00 Fugitive Emissions, Utilities
GRP058 UTILITIES UNIT		GRP57 730-05 GBT System
GRP058 UTILITIES UNIT		RLP42 100-98 GBT Sludge Drier Vent

## Relationships:

## Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT555 01A-71 Boiler (Gas Firing) F-U201	44.9	103692	.7		100	349
EQT556 01B-71 Boiler (Gas Firing) F-U202	43.1	99570	.7		100	349
EQT557 10-87 Standby Blower Diesel Driver DB-T307	109	174060	.75		20	1100
EQT558 11-87 Lift Station Pump Diesel Driver DP-T102	103	72480	.5		20	1100
EQT559 12-87 Effluent Pump Diesel Driver DP-T202	103	72480	.5		20	1100
EQT560 13-87 Standby Blower Diesel Driver DB-T303	109	174060	.75		20	1100
EQT561 13A-71 Gas Engine DP-U101	84.2	2756	.83		20	1200
EQT562 13B-71 Gas Engine DP-U107	84.2	2756	.83		20	1200
EQT563 25-87 Fire Water Pump DP-U502	93.3	65940	.5		20	800
EQT564 26-87 Fire Water Pump DP-U503	62.1	78780	.67		20	800
EQT566 28A-83 Used Oil Storage Tank T-T204 Vertical Fix					15	
EQT567 28B-83 Used Oil Decant Tank T-T205 Vertical Fix					15	
EQT568 28C-83 Used Oil Decant Tank T-T206 Vertical Fix					15	
EQT569 28D-83 Used Oil Storage Tank T-T207 Vertical Fix					15	
EQT570 28E-83 Used Oil Decant Tank T-T208 Vertical Fix					15	
EQT571 28F-83 Used Oil Decant Tank T-T209 Vertical Fix					15	
EQT572 32-88 Natural Gas Distillate T-U803 vertical Fix					8	
EQT574 33-92 Boiler (Gas Firing) F-U205	37.3	85987	.7		100	230
EQT581 40-97 Boiler (Natural Gas Fired) F-U206	35.2	81226	.7		100	300
EQT583 42-91 Emergency Generator DY-U501A	138.6	175800	.67		20	880
EQT585 44-88 Ferriolyte Feed Tank T-T415 Vertical Fix					10	
EQT586 45-88 Aqueous Drifts Surge Tank T-U650 Vertical Fix					40	
EQT587 51-88 API Sludge Decant Tank T-T509					13	
EQT588 52-88 API Sludge Decant Tank T-T510					13	
EQT589 61-87 Gasoline (Super Unleaded) Storage T-H3 Horizontal T					12	
EQT593 02-87 Aeration Basin T-T-300					30	
EQT595 03-87 Aeration Basin T-T-301					30	

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

## Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT596	04-87 Aeration Basin T-T-304						
EQT597	05-87 Aeration Basin T-T-305						
EQT598	06-87 Primary Effluent Receiver Sump A-T203						
EQT599	08-87 DAF Clarifier A-T400						
EQT600	09-87 DAF Clarifier A-T401						
EQT603	40-91 Thickened Sludge Surge Tank T-T-501						
EQT604	42-87 Primary Sludge Surge Tank T-T504						
EQT605	47-88 Equalization/Surge Tank T-T202						
EQT606	48-88 Surge/Spills Diversions Tank T-T203						
EQT607	49-88 Flocculation Tank T-T409						
EQT609	50-88 Flocculation Tank T-T410						
RLP042	100-98 GBT Sludge Dryer Vent	50	1027	8		45	130

## Fee Information:

Subj Item Id	Multipplier	Units Of Measure	Fee Desc
GRP058	1	MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 555	2.17	2.24	9.48	0.13	0.13	0.56	39.97	55.88	175.06	23.93	24.71	104.82	2.07	2.13	9.09
0A-71															
EQT 556	2.17	2.24	9.48	0.13	0.13	0.56	39.97	55.88	175.06	23.93	24.71	104.82	2.07	2.13	9.09
0B-71															
EQT 557	0.45	0.45	0.19	5.18	5.18	2.24	5.18	15.36	6.64	3.52	3.52	1.52	0.45	0.45	0.20
10-87															
EQT 558	0.59	0.59	0.16	0.55	0.55	0.15	8.37	8.37	2.24	1.80	1.80	0.48	0.80	0.80	0.22
11-87															
EQT 559	0.59	0.59	0.16	0.55	0.55	0.15	8.37	8.37	2.24	1.80	1.80	0.48	0.80	0.80	0.22
12-87															
EQT 560	0.45	0.45	0.19	5.18	5.18	2.24	15.36	15.36	6.64	3.52	3.52	1.52	0.45	0.45	0.20
13-87															
EQT 561	0.03	0.04	0.15	0.002	0.003	0.01	1.83	2.18	8.00	2.53	3.20	11.07	0.11	0.13	0.47
14A-71															
EQT 562	0.03	0.04	0.15	0.002	0.003	0.01	2.18	1.83	8.00	2.53	3.20	11.07	0.11	0.13	0.47
14B-71															
EQT 563	0.66	0.66	0.18	0.62	0.62	0.17	9.30	9.30	2.52	2.00	2.00	0.54	0.89	0.89	0.24
25-87															
EQT 564	0.81	0.81	0.22	0.76	0.76	0.21	11.47	11.47	3.10	2.47	2.47	0.67	1.10	1.10	0.30
26-87															
EQT 565															
27-83															
EQT 566															
28A-83															
EQT 567															
28B-83															
EQT 568															
28C-83															
EQT 569															
28D-83															
EQT 570															
28E-83															
EQT 571															
28F-83															
EQT 572															
32-88															

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AIID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 573 33-88													0.02	0.04	0.09
EQT 574 33-92	2.17	2.24	9.48	0.14	0.15	0.62	14.53	15.00	63.64	23.93	24.71	104.82	1.51	1.56	6.60
EQT 575 34-88													0.02	0.04	0.09
EQT 576 35-88													0.01	0.01	0.02
EQT 577 36-88													0.01	0.02	0.04
EQT 578 37-88													0.01	0.01	0.03
EQT 579 38-88													0.01	0.01	0.03
EQT 580 39-88													0.01	0.02	0.04
EQT 581 40-87	2.17	2.24	9.48	0.17	0.18	0.75	14.53	15.00	63.64	23.93	24.71	104.82	1.57	1.62	6.86
EQT 582 41-88													0.01	0.01	0.03
EQT 583 42-91													0.19	0.36	0.83
EQT 584 43-91													0.001		0.01
EQT 585 44-88													0.002		0.01
EQT 586 45-88													0.07	0.13	0.29
EQT 587 52-88													0.06		0.26
EQT 588 51-88													0.06	0.08	0.24
EQT 589 61-87															
EQT 590 731-05															

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 016 70140														1.87	
GRP 057 73005														25.37	25.37
RLP 042 100-98														2.74	3.25
															12.00

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Phase Totals:**

PM10: 39.38 tons/yr

SO2: 7.72 tons/yr

NOx: 517.58 tons/yr

CO: 446.80 tons/yr

VOC: 168.64 tons/yr

**Emission rates Notes:**

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

1,1,1-Trichloroethane			1,4-Dioxane			2,2,4-Trimethylpentane			Acetaldehyde			Acrolein			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 555 01A-71															
EQT 556 01B-71															
EQT 572 32-88															
EQT 574 33-92															
EQT 589 61-87							0.001			0.01					
EQT 590 731-05															
FUG 016 701-00															
GRP 057 730-05	0.001	0.01	0.001	0.001	0.01	0.001	0.01			1.49	1.49	6.53	0.005	0.005	0.02

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**All phases**

Ammonia		Benzene			Chlorine			Chlorobenzene			Chloroform			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year
EQT 555 01A-71														
EQT 556 01B-71														
EQT 572 32-88		0.001												
EQT 574 33-92														
EQT 589 61-87		0.001												
EQT 590 73-145		0.001	0.002		0.01									
ELUG 016 701-90	0.91	4.00					0.83		3.65					
GRP 057 730-95				0.01	0.01	0.04				0.001	0.001	0.01	0.001	0.01

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	Cumene			Ethyl benzene			Ethylene glycol			Ethylene oxide			Formaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 555 01A-71										<	0.002	0.002	0.01		
EQT 556 01B-71										<	0.002	0.002	0.01		
EQT 572 32-38															
EQT 574 33-92															
EQT 589 61-87	0.001	0.001		0.01			0.001			0.001	0.001	0.01			
EQT 590 73-05															
FUG 016 701-00															
GRP 057 738-05				0.001	0.001		0.01	0.001	0.01	0.502	0.502	2.197	0.01	0.01	0.02

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Methanol			Methyl Tertiary Butyl Ether			Methyl ethyl Ketone			Naphthalene			Propion aldehyde		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year
EQT 555 01A-71														
EQT 556 01B-71														
EQT 572 32-88														
EQT 574 33-32														
EQT 589 61-87														
EQT 590 731-05														
FUG 016 701-00														
GRP 057 730-05	0.001	0.001	0.01	0.05	0.05	0.20	0.001	0.01	0.001	0.01	0.04	0.04	0.16	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	Toluene			Trichloroethylene			Xylene (mixed isomers)			n-Hexane			n-butyl alcohol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 555 01A-71															
EQT 556 01B-71															
EQT 572 32-86	0.001		0.01					0.001		0.01	0.004			0.02	
EQT 574 33-92															
EQT 589 61-87	0.001		0.01					0.001		0.01	0.001			0.01	
EQT 590 731-05	0.001	0.002	0.01					0.001	0.002	0.01	0.001	0.002		0.01	
FUG 016 701-00															0.34
GRP 057 730-05	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01		0.001	0.001	0.001	0.01

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

**Permit Parameter Totals:**

1,1,1-Trichloroethane: 0.01 tons/yr  
 1,4-Dioxane: 0.01 tons/yr  
 2,2,4-Trimethylpentane: 0.01 tons/yr  
 Acetaldehyde: 6.53 tons/yr  
 Acrolein: 0.02 tons/yr  
 Ammonia: 4.00 tons/yr  
 Benzene: 0.07 tons/yr  
 Chlorine: 3.65 tons/yr  
 Chlorobenzene: 0.01 tons/yr  
 Chloroform: 0.01 tons/yr  
 Cumene: 0.01 tons/yr  
 Ethyl benzene: 0.02 tons/yr  
 Ethylene glycol: 0.01 tons/yr  
 Ethylene oxide: 2.23 tons/yr

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**All phases**

Formaldehyde: 0.02 tons/yr  
Methanol: 0.01 tons/yr  
Methyl Ethyl Ketone: 0.01 tons/yr  
Methyl Tertiary Butyl Ether: 0.20 tons/yr  
n-butyl alcohol: 0.01 tons/yr  
n-Hexane: 0.38 tons/yr  
Naphthalene: 0.01 tons/yr  
Propionaldehyde: 0.16 tons/yr  
Toluene: 0.04 tons/yr  
Trichloroethylene: 0.01 tons/yr  
Xylene (mixed isomers): 0.06 tons/yr

**Emission Rates Notes:**

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**EQT555 01A-71 Boiler (Gas Firing) F-U201**

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- 2 Which Months: All Year Statistical Basis: None specified
- 3 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- 4 Which Months: All Year Statistical Basis: None specified
- 5 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 6 Nonhalogenated hydrocarbon burning: Temperature >= 1300 F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. [LAC 33:III.2115.A]
- 7 Which Months: All Year Statistical Basis: None specified
- 8 Equipment/operational data recordkeeping by electronic or hard copy at the regulations specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 9 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Carry out recordkeeping that includes, but is not limited to, a record of the data on which the determination of each point source's hourly, daily, or 30-day, as appropriate, compliance with the facility-wide averaging plan is based. [LAC 33:III.2201.E.1]
- 10 Comply with the facility-wide averaging plan as approved by DEQ. [LAC 33:III.2201.E.]
- 11 Nitrogen oxides <= 0.07 lb/MMBTU. [LAC 33:III.2201.E]
- 12 Which Months: May-Sep Statistical Basis: 30-day block average
- 13 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. As MACT for emission sources, this boiler combusts vent streams containing LTAPs. [LAC 33:III.5109.A]
- 14 Submit initial notification requirements in 63.9(b). Initial notification submitted March 8, 2005. No other requirements apply. [40 CFR 63.7506(b)]

**EQT556 01B-71 Boiler (Gas Firing) F-U202**

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- 2 Which Months: All Year Statistical Basis: None specified
- 3 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- 4 Which Months: All Year Statistical Basis: None specified
- 5 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**EQT556 01B-71 Boiler (Gas Firing) F-U202**

- 14 Nonhalogenated hydrocarbon burning: Temperature  $\geq 1300$  F (704 degrees C) for 0.3 second or greater in a direct-flame afterburner or an equally effective device which achieves a removal efficiency of 95 percent or greater, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 50 ppm by volume, whichever is less stringent. [LAC 33:III.2115.A]
- 15 Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K. 1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 16 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Carry out recordkeeping that includes, but is not limited to, a record of the data on which the determination of each point source's hourly, daily, or 30-day, as appropriate, compliance with the facility-wide averaging plan is based. [LAC 33:III.2201.E.1.]
- 17 Comply with the facility-wide averaging plan as approved by DEQ. [LAC 33:III.2201.E.]
- 18 Nitrogen oxides  $<= 0.07$  lb/MMBTU. [LAC 33:III.2201.E]
- 19 Which Months: May-Sep Statistical Basis: 30-day block average Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. As MACT, this boiler combusts vent streams containing LTAPs. [LAC 33:III.5109.A]  $\geq 98\%$  reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 20 Total Organic Compounds (less methane and ethane)  $\geq 98\%$  reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to vent streams containing LTAPs. [LAC 33:III.5109.A]
- 21 Which Months: All Year Statistical Basis: None specified Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
- 22 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- 23 Operating time recordkeeping by electronic or hard copy continuously. Make records of the periods of operation, readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- 24 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 25 Use the 40 CFR 60 appendix A methods listed in 40 CFR 60.664(b) through (h), except as provided under 40 CFR 60.60.8(b), as reference methods to determine compliance with the emission limit or percent reduction efficiency specified under 40 CFR 60.662(a). Subpart NNN. [40 CFR 60.664(b)]
- 26 For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]
- 27 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(1)(1) through (1)(7). Subpart NNN. [40 CFR 60.665(1)]. [40 CFR 60.665(1)]
- 28 Total Organic Compounds (less methane and ethane)  $\geq 98\%$  reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart RRR. [40 CFR 60.702(a)]
- 29 Which Months: All Year Statistical Basis: None specified Introduce the vent stream into the flame zone. Subpart RRR. [40 CFR 60.702(a)]
- 30 Performance Test Data recordkeeping by electronic or hard copy continuously. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.705(b) through (1) measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart RRR. [40 CFR 60.705(b)]
- 31 For a boiler or process heater submit a report containing the information in 40 CFR 60.705(b)(2)(i). [40 CFR 60.705(b)]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**EQT556      01B-71 Boiler (Gas Firing) F-U202**

32 Submit initial notification requirements in 63.9(b). Initial notification submitted March 8, 2005. No other requirements apply. [40 CFR 63.7506(b)]

**EQT557      10-87 Standby Blower Diesel Driver DB-T307**

33 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
 Which Months: All Year Statistical Basis: None specified

34 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT558      11-87 Lift Station Pump Diesel Driver DP-T102**

35 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
 Which Months: All Year Statistical Basis: None specified

36 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT559      12-87 Effluent Pump Diesel Driver DP-T202**

37 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
 Which Months: All Year Statistical Basis: None specified

38 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT560      13-87 Standby Blower Diesel Driver DB-T303**

39 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
 Which Months: All Year Statistical Basis: None specified

40 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT561      13A-71 Gas Engine DP-U101**

**SPECIFIC REQUIREMENTS**

**AI ID:** 1136 - Shell Chemical Co - Geismar Plant  
**Activity Number:** PER20050036  
**Permit Number:** 2136-V3  
**Air - Title V Regular Permit Renewal**

**EQT561 13A-71 Gas Engine DP-U101**

- 41 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 42 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 43 Nitrogen oxides <= 2.0 g/BHP-hr. [LAC 33:III.2201.D.1]
- Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 44 Test NOx emissions after each occurrence of catalyst replacement. Maintain documentation on-site, if practical, of the date, the person doing the test, and the test results. Make documentation available for inspection upon request. [LAC 33:III.2201.H.10]
- 45 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.4.a]
- Which Months: May-Sep Statistical Basis: None specified
- 46 Perform annual testing for NOx and CO with an approved portable analyzer. [LAC 33:III.2201.H.4.a]
- 47 Perform triennial stack testing for NOx and CO in accordance with the methods specified in LAC:III.2201.G.5. [LAC 33:III.2201.H.4.a]
- 48 Operate the engine within the fuel limits established during the initial compliance run. [LAC 33:III.2201.H.4.a]
- 49 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]
- 50 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]
- 51 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.I.2]
- 52 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]
- EQT562 13B-71 Gas Engine DP-U107**
- 53 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 54 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 55 Nitrogen oxides <= 2.0 g/BHP-hr. [LAC 33:III.2201.D.1]
- Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 56 Test NOx emissions after each occurrence of catalyst replacement. Maintain documentation on-site, if practical, of the date, the person doing the test, and the test results. Make documentation available for inspection upon request. [LAC 33:III.2201.H.10]
- 57 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.4.a]
- Which Months: May-Sep Statistical Basis: None specified

**SPECIFIC REQUIREMENTS****AI ID:** 1136 - Shell Chemical Co - Geismar Plant**Activity Number:** PER20050036**Permit Number:** 2136-V3**Air - Title V Regular Permit Renewal****EQT562 13B-71 Gas Engine DP-U107**

- 58 Perform annual testing for NOx and CO with an approved portable analyzer. [LAC 33:III.2201.H.4.a]
- 59 Perform triennial stack testing for NOx and CO in accordance with the methods specified in LAC:III.2201.G.5. [LAC 33:III.2201.H.4.a]
- 60 Operate the engine within the fuel limits established during the initial compliance run. [LAC 33:III.2201.H.4.a]
- 61 Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.2201.I.1]
- 62 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1. [LAC 33:III.2201.I.1]
- 63 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2. [LAC 33:III.2201.I.2]
- 64 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I.]

**EQT563 25-87 Fire Water Pump DP-U502**

- 65 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or laning, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 66 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT564 26-87 Fire Water Pump DP-U503**

- 67 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or laning, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 68 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT565 27-83 SBF Oil/Water Separator A-T518**

- 69 LAC 33:III.2109: EXEMPT - true vapor pressure of VOC materials is less than (<) 0.5 psia. [LAC 33:III.2109.B]
- 70 Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the information specified in LAC 33:III.2109.D.2. [LAC 33:III.2109.D.2]

**EQT572 32-88 Natural Gas Distillate T-U803 vertical Fix**

- 71 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 72 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3-a-e. [LAC 33:III.2103.H.3]
- 73 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I.]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**EQT572** 32-88 Natural Gas Distillate T-U803 vertical Fix

74 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be in compliance with LAC 33:III.2103. [LAC 33:III.5109.A]

**EQT574** 33-92 Boiler (Gas Firing) F-U205

75 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

76 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

77 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

78 Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]

Which Months: All Year Statistical Basis: None specified

79 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]

80 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K..3.

Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]

81 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. As MACT, this boiler combusts vent streams containing LTAPs. [LAC 33:III.5109.A]

82 Nitrogen oxides <= 0.20 lb/MMBTU (86 ng/D) heat input (expressed as NO<sub>2</sub>), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]

Which Months: All Year Statistical Basis: Thirty-day rolling average

83 Determine compliance with the NO<sub>x</sub> standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable.

Subpart Db. [40 CFR 60.46b(c)]

84 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(g), (h), and

(i). Subpart Db. [40 CFR 60.48b(b)(1)]

Which Months: All Year Statistical Basis: Hourly average

85 Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]

86 Operate NO<sub>x</sub> continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]

87 Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NO<sub>x</sub> and opacity continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**EQT574 33-92 Boiler (Gas Firing) F-U205**

- 88 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 89 Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 90 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 91 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 92 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 93 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 94 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 95 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 96 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 97 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
- 98 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
- 99 Total Organic Compounds (less methane and ethane)  $\geq 98\%$  reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- Which Months: All Year Statistical Basis: None specified
- 100 Introduce the vent stream into the flame zone if a process heater or boiler is used to comply. Subpart NNN. [40 CFR 60.662(a)]
- 101 Operating time monitored by hour/time monitor continuously. Monitor the periods of operation. Subpart NNN. [40 CFR 60.663(d)]
- Which Months: All Year Statistical Basis: None specified
- 102 Operating time recordkeeping by electronic or hard copy continuously. Make records, of the periods of operation, readily available for inspection. Subpart NNN. [40 CFR 60.663(d)]
- 103 Run all affected facilities at full operating conditions and flow rates during any performance test intended to demonstrate compliance with 40 CFR 60.662. Subpart NNN. [40 CFR 60.664(a)]
- 104 For a boiler or process heater submit a report containing the information in 40 CFR 60.665(b)(2)(i). Subpart NNN. [40 CFR 60.665(b)]

**SPECIFIC REQUIREMENTS**

**All ID:** 1136 - Shell Chemical Co - Geismar Plant  
**Activity Number:** PER20050036  
**Permit Number:** 2136-V3  
**Air - Title V Regular Permit Renewal**

**EQT574**      **33-92 Boiler (Gas Firing) F-U205**

- 105 Performance Test Data recordkeeping by electronic or hard copy continuously. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.665(b) through (j) as applicable measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart NNN. [40 CFR 60.665(b)]
- 106 Submit report Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(i) through (l)(7). Subpart NNN. [40 CFR 60.665(i)]. [40 CFR 60.665(l)]
- 107 Total Organic Compounds (less methane and ethane)  $\geq 98\%$  reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart RRR. [40 CFR 60.702(a)]

Which Months: All Year Statistical Basis: None specified

- 108 Introduce the vent stream into the flame zone. Subpart RRR. [40 CFR 60.702(a)]

- 109 Performance Test Data recordkeeping by electronic or hard copy continuously. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.705(b) through (l) measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart RRR. [40 CFR 60.705(b)]

- 110 For a boiler or process heater submit a report containing the information in 40 CFR 60.705(b)(2)(i). [40 CFR 60.705(b)]

- 111 Submit initial notification requirements in 63.9(b). Initial notification submitted March 8, 2005. No other requirements apply. [40 CFR 63.7506(b)]

**EQT581**      **40-97 Boiler (Natural Gas Fired) F-U206**

- 112 Opacity  $\leq 20$  percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

113 Total suspended particulate  $\leq 0.6 \text{ lb/MMBTU}$  of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

- 114 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

- 115 Nitrogen oxides  $\leq 0.20 \text{ lb/MMBTU}$  ( $86 \text{ ng/J}$ ) heat input (expressed as NO<sub>2</sub>), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db. [40 CFR 60.44b]

Which Months: All Year Statistical Basis: Thirty-day rolling average

- 116 Determine compliance with the NO<sub>x</sub> standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]

- 117 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]

Which Months: All Year Statistical Basis: Hourly average

- 118 Nitrogen oxides recordkeeping by CMS continuously, except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]

- 119 Operate NO<sub>x</sub> continuous monitoring systems and record data during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Record data during calibration checks, and zero and span adjustments. Subpart Db. [40 CFR 60.48b(c)]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050036

Permit Number: 2136-V3

Air - Title V Regular Permit Renewal

**EQT581      40-97 Boiler (Natural Gas Fired) F-U206**

- 120 Follow the procedures under 40 CFR 60.13 and 40 CFR 60.48b(e)(1) through (e)(3) for installation, evaluation, and operation of the NO<sub>x</sub> and opacity continuous monitoring systems. Subpart Db. [40 CFR 60.48b(e)]
- 121 When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, obtain emission data by using standby monitoring systems, 40 CFR 60, Appendix A, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days. Subpart Db. [40 CFR 60.48b(f)]
- 122 Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 123 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 124 Submit the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 125 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 126 Fuel nitrogen content recordkeeping by electronic or hard copy at the regulation's specified frequency, and calculate the average fuel nitrogen content for the reporting period. Subpart Db. [40 CFR 60.49b(e)]
- 127 Fuel nitrogen content monitored by the regulation's specified method(s) at the regulation's specified frequency. Determine the nitrogen content using the test method specified. Subpart Db. [40 CFR 60.49b(e)]
- Which Months: All Year Statistical Basis: None specified
- 128 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 129 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 130 Submit reports containing the nitrogen dioxide emission rate information recorded under 40 CFR 60.49b(g). Subpart Db. [40 CFR 60.49b(i)]
- 131 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 132 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the calendar date, the number of hours of operation, and the hourly steam load for each steam generating unit operating day. Subpart Db. [40 CFR 60.49b(p)]
- 133 Submit a report to DEQ containing the annual capacity factor over the previous 12 months, the average fuel nitrogen content during the reporting period if residual oil was fired, and all other applicable information per 40 CFR 60.49b(q)(1) through (q)(3). Subpart Db. [40 CFR 60.49b(q)]
- 134 Submit initial notification requirements in 63.9(b). Initial notification submitted March 8, 2005. No other requirements apply. [40 CFR 63.7506(b)]

**EQT583      42-91 Emergency Generator DY-U501A**

- 135 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33.III.1101.B]
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
 Permit Number: 2136-V3  
 Air - Title V Regular Permit Renewal

**EQT583 42-91 Emergency Generator DY-U501A**

136 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1.513.]

**EQT589 61-87 Gasoline (Super Unleaded) Storage T-H3 Horizontal T**

137 Equip with a submerged fill pipe. [LAC 33:III.2.103.A]  
 138 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2.103.H.3]  
 139 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2.103.I.]

**EQT590 731-05 Natural Gas Distillate Loading/Unloading**

140 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no controls. [LAC 33:III.5109.A]

**FUG016 701-00 Fugitive Emissions, Utilities**

141 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals on other equivalent equipment. [LAC 33:III.2111]  
 142 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emits Class II and Class III TAPs; MACT not required. [LAC 33:III.5109.A]

**GRP057 730-05 GBT System**

143 LAC 33:III.2109. EXEMPT - true vapor pressure of VOC materials is less than (<) 0.5 psia. [LAC 33:III.2109.B]  
 144 Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the information specified in LAC 33:III.2109.D.2. [LAC 33:III.2109.D.2]  
 145 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Further MACT for EO and ACH emissions consisted of covering sump A-T203 (EPN 06-87) and equipping it with a scrubber whose water flow is measured by a flow indicator.

Further MACT for EO and ACH emissions consists of keeping tank T-T501 (EPN 40-91) aerated for both mixing and biotreatment purposes. [LAC 33:III.5109.A]

**GRP058 UTILITIES UNIT**

146 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]  
 147 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]  
 148 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]

**SPECIFIC REQUIREMENTS**

**AI ID:** 1136 - Shell Chemical Co - Geismar Plant  
**Activity Number:** PER20050036  
**Permit Number:** 2136-V3  
**Air - Title V Regular Permit Renewal**

**GRP058 UTILITIES UNIT**

- 149 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 150 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 151 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 152 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only). [LAC 33:III.501.C.6]
- 153 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]
- 154 Carbon monoxide <= 446.80 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 155 Nitrogen oxides <= 517.58 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 156 Particulate matter (10 microns or less) <= 39.38 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 157 Sulfur dioxide <= 7.72 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 158 1,1,1-Trichloroethane <= 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 159 1,4-Dioxane <= 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 160 Acetaldehyde <= 6.53 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 161 Acrolein <= 0.02 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 162 Benzene <= 0.07 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 163 Chlorobenzene <= 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 164 Chloroform <= 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 165 Ethyl benzene <= 0.02 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 166 Ethylene oxide <= 2.23 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
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**UTILITIES UNIT****GRP058**

- 167 Formaldehyde <= 0.02 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 168 Methanol <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 169 Methyl ethyl ketone <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 170 Methyl Tertiary Butyl Ether <= 0.20 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 171 Naphthalene <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 172 n-butyl alcohol <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 173 Propionaldehyde <= 0.16 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 174 Toluene <= 0.04 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 175 Trichloroethylene <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 176 Xylene (mixed isomers) <= 0.05 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 177 2,2,4 Trimethylpentane <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 178 Ammonia <= 4.00 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 179 Chlorine <= 3.65 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 180 Cumene <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 181 n-Hexane <= 0.38 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 182 VOC, Total <= 168.64 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 183 Ethylene glycol <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 184 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 185 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 186 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 187 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
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**GRP058 UTILITIES UNIT**

- 188 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 189 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 190 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 191 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.5107.B.2]
- 192 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 193 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 194 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 195 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 196 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]
- 197 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 198 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 199 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 200 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050036  
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**UTILITIES UNIT****GRP058**

- 201 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 202 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 203 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 204 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 205 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 206 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 207 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 208 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 209 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 210 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 211 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 212 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 213 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 214 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.4]
- 215 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 216 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 217 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 218 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 219 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]

**SPECIFIC REQUIREMENTS**

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
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**GRP058 UTILITIES UNIT**

- 220 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 221 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 222 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 223 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 224 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A.]
- 225 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 226 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 227 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 99, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 228 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 229 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 230 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:III.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 231 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 232 Comply with all applicable provisions of 40 CFR 61 Subpart M. [40 CFR 61.140]
- 233 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 234 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 235 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 236 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table xx of 40 CFR 63 Subpart xx. [40 CFR 63]
- 237 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 238 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

## **SPECIFIC REQUIREMENTS**

**AI ID: 1136 - Shell Chemical Co - Geismar Plant**  
**Activity Number: PER20050036**  
**Permit Number: 2136-V3**  
**Air - Title V Regular Permit Renewal**

### **GRP058 UTILITIES UNIT**

- 239 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 240 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 241 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82. Subpart F]

### **RLP042 100-98 GBT Sludge Dryer Vent**

- 242 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III:2115.K]